



IFW16

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/072,301A

DATE: 08/06/2004

TIME: 11:22:50

Input Set : A:\PTO.LM.txt

Output Set: N:\CRF4\08062004\J072301A.raw

3 <110> APPLICANT: Hua, Shaobing
 4 Pauling, Michelle H.
 5 Zhu, Li
 7 <120> TITLE OF INVENTION: HUMAN MONOCLONAL ANTIBODIES AGAINST CORECEPTORS FOR HUMAN
 8 IMMUNODEFICIENCY VIRUS
 10 <130> FILE REFERENCE: 25636-718
 C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/072,301A
 C--> 12 <141> CURRENT FILING DATE: 2002-02-08
 12 <160> NUMBER OF SEQ ID NOS: 60
 14 <170> SOFTWARE: PatentIn version 3.1
 16 <210> SEQ ID NO: 1
 17 <211> LENGTH: 352
 18 <212> TYPE: PRT
 19 <213> ORGANISM: Homo sapiens
 21 <400> SEQUENCE: 1
 23 Met Asp Tyr Gln Val Ser Ser Pro Ile Tyr Asp Ile Asn Tyr Tyr Thr
 24 1 5 10 15
 27 Ser Glu Pro Cys Gln Lys Ile Asn Val Lys Gln Ile Ala Ala Arg Leu
 28 20 25 30
 31 Leu Pro Pro Leu Tyr Ser Leu Val Phe Ile Phe Gly Phe Val Gly Asn
 32 35 40 45
 35 Met Leu Val Ile Leu Ile Leu Ile Asn Cys Lys Arg Leu Lys Ser Met
 36 50 55 60
 39 Thr Asp Ile Tyr Leu Leu Asn Leu Ala Ile Ser Asp Leu Phe Phe Leu
 40 65 70 75 80
 43 Leu Thr Val Pro Phe Trp Ala His Tyr Ala Ala Ala Gln Trp Asp Phe
 44 85 90 95
 47 Gly Asn Thr Met Cys Gln Leu Leu Thr Gly Leu Tyr Phe Ile Gly Phe
 48 100 105 110
 51 Phe Ser Gly Ile Phe Phe Ile Ile Leu Leu Thr Ile Asp Arg Tyr Leu
 52 115 120 125
 55 Ala Val Val His Ala Val Phe Ala Leu Lys Ala Arg Thr Val Thr Phe
 56 130 135 140
 59 Gly Val Val Thr Ser Val Ile Thr Trp Val Val Ala Val Phe Ala Ser
 60 145 150 155 160
 63 Leu Pro Gly Ile Ile Phe Thr Arg Ser Gln Lys Glu Gly Leu His Tyr
 64 165 170 175
 67 Thr Cys Ser Ser His Phe Pro Tyr Ser Gln Tyr Gln Phe Trp Lys Asn
 68 180 185 190
 71 Phe Gln Thr Leu Lys Ile Val Ile Leu Gly Leu Val Leu Pro Leu Leu
 72 195 200 205
 75 Val Met Val Ile Cys Tyr Ser Gly Ile Leu Lys Thr Leu Leu Arg Cys
 76 210 215 220

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79 Arg Asn Glu Lys Lys Arg His Arg Ala Val Arg Leu Ile Phe Thr Ile
 80 225 230 235 240
 83 Met Ile Val Tyr Phe Leu Phe Trp Ala Pro Tyr Asn Ile Val Leu Leu
 84 245 250 255
 87 Leu Asn Thr Phe Gln Glu Phe Phe Gly Leu Asn Asn Cys Ser Ser Ser
 88 260 265 270
 91 Asn Arg Leu Asp Gln Ala Met Gln Val Thr Glu Thr Leu Gly Met Thr
 92 275 280 285
 95 His Cys Cys Ile Asn Pro Ile Ile Tyr Ala Phe Val Gly Glu Lys Phe
 96 290 295 300
 99 Arg Asn Tyr Leu Leu Val Phe Phe Gln Lys His Ile Ala Lys Arg Phe
 100 305 310 315 320
 103 Cys Lys Cys Cys Ser Ile Phe Gln Gln Glu Ala Pro Glu Arg Ala Ser
 104 325 330 335
 107 Ser Val Tyr Thr Arg Ser Thr Gly Glu Gln Glu Ile Ser Val Gly Leu
 108 340 345 350
 111 <210> SEQ ID NO: 2
 112 <211> LENGTH: 17
 113 <212> TYPE: PRT
 114 <213> ORGANISM: Homo sapiens
 116 <400> SEQUENCE: 2
 118 Gln Glu Phe Phe Gly Leu Asn Asn Cys Ser Ser Ser Asn Arg Leu Asp
 119 1 5 10 15
 122 Gln
 126 <210> SEQ ID NO: 3
 127 <211> LENGTH: 32
 128 <212> TYPE: PRT
 129 <213> ORGANISM: Homo sapiens
 131 <400> SEQUENCE: 3
 133 Thr Arg Ser Gln Lys Glu Gly Leu His Tyr Thr Cys Ser Ser His Phe
 134 1 5 10 15
 137 Pro Tyr Ser Gln Tyr Gln Phe Trp Lys Asn Phe Gln Thr Leu Lys Ile
 138 20 25 30
 141 <210> SEQ ID NO: 4
 142 <211> LENGTH: 20
 143 <212> TYPE: PRT
 144 <213> ORGANISM: Artificial Sequence
 146 <220> FEATURE:
 147 <223> OTHER INFORMATION: G4S Linker
 149 <400> SEQUENCE: 4
 151 Gly Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gly
 152 1 5 10 15
 155 Gly Gly Gly Ser
 156 20
 159 <210> SEQ ID NO: 5
 160 <211> LENGTH: 60
 161 <212> TYPE: DNA
 162 <213> ORGANISM: Artificial Sequence
 164 <220> FEATURE:

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165 <223> OTHER INFORMATION: DNA of G4S Linker
 167 <400> SEQUENCE: 5
 168 ggcgggttg gatcaggcg cgaggatct ggccggagggtg gcagcggtgg tggaggcagt 60
 171 <210> SEQ ID NO: 6
 172 <211> LENGTH: 60
 173 <212> TYPE: DNA
 174 <213> ORGANISM: Artificial Sequence
 176 <220> FEATURE:
 177 <223> OTHER INFORMATION: 5' Homologous Sequence
 179 <400> SEQUENCE: 6
 180 acccccaccaa accaaaaaaa agagatctgt atggcttacc catacgatgt tccagattac 60
 183 <210> SEQ ID NO: 7
 184 <211> LENGTH: 57
 185 <212> TYPE: DNA
 186 <213> ORGANISM: Artificial Sequence
 188 <220> FEATURE:
 189 <223> OTHER INFORMATION: 3' Homologous Sequence
 191 <400> SEQUENCE: 7
 192 gagatggtgc acgatgcaca gttgaagtga acttgcgggg ttttcagta tctacga 57
 195 <210> SEQ ID NO: 8
 196 <211> LENGTH: 36
 197 <212> TYPE: PRT
 198 <213> ORGANISM: Homo sapiens
 200 <400> SEQUENCE: 8
 202 Met Asp Tyr Gln Val Ser Ser Pro Ile Tyr Asp Ile Asn Tyr Tyr Thr
 203 1 5 10 15
 206 Ser Glu Pro Cys Gln Lys Ile Asn Val Lys Gln Ile Ala Ala Arg Leu
 207 20 25 30
 210 Leu Pro Pro Leu
 211 35
 214 <210> SEQ ID NO: 9
 215 <211> LENGTH: 32
 216 <212> TYPE: PRT
 217 <213> ORGANISM: Homo sapiens
 219 <400> SEQUENCE: 9
 221 Thr Arg Ser Gln Lys Glu Gly Leu His Tyr Thr Cys Ser Ser His Phe
 222 1 5 10 15
 225 Pro Tyr Ser Gln Tyr Gln Phe Trp Lys Asn Phe Gln Thr Leu Lys Ile
 226 20 25 30
 229 <210> SEQ ID NO: 10
 230 <211> LENGTH: 30
 231 <212> TYPE: DNA
 232 <213> ORGANISM: Artificial Sequence
 234 <220> FEATURE:
 235 <223> OTHER INFORMATION: Primer
 237 <400> SEQUENCE: 10
 238 ggagaattcg attatcaagt gtcaagtcca 30
 241 <210> SEQ ID NO: 11
 242 <211> LENGTH: 31

RAW SEQUENCE LISTING

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Input Set : A:\PTO.LM.txt

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243 <212> TYPE: DNA
 244 <213> ORGANISM: Artificial Sequence
 246 <220> FEATURE:
 247 <223> OTHER INFORMATION: Primer
 249 <400> SEQUENCE: 11
 250 cgcggatcct tagagcgagg gcaggaggcg g 31
 253 <210> SEQ ID NO: 12
 254 <211> LENGTH: 29
 255 <212> TYPE: DNA
 256 <213> ORGANISM: Artificial Sequence
 258 <220> FEATURE:
 259 <223> OTHER INFORMATION: Primer
 261 <400> SEQUENCE: 12
 262 ggagaattca ccagatctca aaaagaagg 29
 265 <210> SEQ ID NO: 13
 266 <211> LENGTH: 33
 267 <212> TYPE: DNA
 268 <213> ORGANISM: Artificial Sequence
 270 <220> FEATURE:
 271 <223> OTHER INFORMATION: Primer
 273 <400> SEQUENCE: 13
 274 cgcggatcct tatatcttta atgtctggaa att 33
 277 <210> SEQ ID NO: 14
 278 <211> LENGTH: 21
 279 <212> TYPE: DNA
 280 <213> ORGANISM: Artificial Sequence
 282 <220> FEATURE:
 283 <223> OTHER INFORMATION: Primer
 285 <400> SEQUENCE: 14
 286 caggaattct ttggcctgaa t 21
 289 <210> SEQ ID NO: 15
 290 <211> LENGTH: 31
 291 <212> TYPE: DNA
 292 <213> ORGANISM: Artificial Sequence
 294 <220> FEATURE:
 295 <223> OTHER INFORMATION: Primer
 297 <400> SEQUENCE: 15
 298 cgcggatcct cagcagtgcg tcatccaaag a 31
 301 <210> SEQ ID NO: 16
 302 <211> LENGTH: 759
 303 <212> TYPE: DNA
 304 <213> ORGANISM: Artificial Sequence
 306 <220> FEATURE:
 307 <223> OTHER INFORMATION: Clone 15.186.35
 309 <400> SEQUENCE: 16
 310 caggttacct tgaaggagt tggcttacg ttgggtaaaac ccacacagac cctcacgctg 60
 312 acctgcacct tgtctgggtt ctcaactcagc actagtggag tgagtggtggg ctggatccgt 120
 314 cagccccca gaaaggcccct tgagtggctt gcaaggataa attggaatga tgataagtgc 180
 316 tacagccccat ctctgaaaag caggctcacc atcaccaagg acaccccaa aaaccaggtg 240

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318	gtccttgcaa	ttagcaacat	ggaccctgcg	gacacagcca	catattcctg	tgcactcgat	300									
320	atgccccccc	atgatagtgg	cccgcaatct	tttgcgtgtt	ctgatgtctg	gggcccaggg	360									
322	acaatggtca	ccgtctcttc	aggcgggtgg	ggatcaggcg	gcggaggatc	tggcggaggt	420									
324	ggcagcggtg	gtggaggcag	ttccatatgag	ctgatgcagc	taccctcagt	gtccgtgtcc	480									
326	ccaggacaga	cagccagcat	cacctgtct	ggagataatt	tggggataaa	atatgcctgc	540									
328	tggtatcaac	agaagccagg	ccggccccct	gtgctggtca	tttatggaga	taacaagcgg	600									
330	ccctcaggga	tccctgagcg	attctctggc	tccaaactctg	ggaacacagc	cactctgacc	660									
332	atcagcggga	cccaggctat	ggatgaggct	gactattact	gtcaggcgtg	ggacaccagc	720									
334	actgctgtct	tccgaactgg	gaccaagctc	accgtccta			759									
337	<210>	SEQ ID NO:	17													
338	<211>	LENGTH:	253													
339	<212>	TYPE:	PRT													
340	<213>	ORGANISM:	Artificial Sequence													
342	<220>	FEATURE:														
343	<223>	OTHER INFORMATION:	Clone 15.186.35													
345	<400>	SEQUENCE:	17													
347	Gln	Val	Thr	Leu	Lys	Glu	Pro	Thr	Leu	Val	Lys	Pro	Thr	Gln		
348	1				5				10				15			
351	Thr	Leu	Thr	Leu	Thr	Cys	Thr	Leu	Ser	Gly	Phe	Ser	Leu	Ser	Thr	Ser
352						20			25				30			
355	Gly	Val	Ser	Val	Gly	Trp	Ile	Arg	Gln	Pro	Pro	Gly	Lys	Ala	Leu	Glu
356						35			40				45			
359	Trp	Leu	Ala	Ser	Ile	Asn	Trp	Asn	Asp	Asp	Lys	Cys	Tyr	Ser	Pro	Ser
360						50			55				60			
363	Leu	Lys	Ser	Arg	Leu	Thr	Ile	Thr	Lys	Asp	Thr	Pro	Lys	Asn	Gln	Val
364						65			70				75			80
367	Val	Leu	Ala	Met	Ser	Asn	Met	Asp	Pro	Ala	Asp	Thr	Ala	Thr	Tyr	Ser
368						85			90				95			
371	Cys	Ala	Leu	Asp	Met	Pro	Pro	His	Asp	Ser	Gly	Pro	Gln	Ser	Phe	Asp
372						100			105				110			
375	Ala	Ser	Asp	Val	Trp	Gly	Pro	Gly	Thr	Met	Val	Thr	Val	Ser	Ser	Gly
376						115			120				125			
379	Gly	Gly	Ser	Gly	Gly	Gly	Ser	Gly	Gly	Gly	Gly	Ser	Gly	Gly		
380						130			135				140			
383	Gly	Gly	Ser	Ser	Tyr	Glu	Leu	Met	Gln	Leu	Pro	Ser	Val	Ser		
384						145			150				155			160
387	Pro	Gly	Gln	Thr	Ala	Ser	Ile	Thr	Cys	Ser	Gly	Asp	Asn	Leu	Gly	Asp
388						165			170				175			
391	Lys	Tyr	Ala	Cys	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Arg	Ser	Pro	Val	Leu
392						180			185				190			
395	Val	Ile	Tyr	Gly	Asp	Asn	Lys	Arg	Pro	Ser	Gly	Ile	Pro	Glu	Arg	Phe
396						195			200				205			
399	Ser	Gly	Ser	Asn	Ser	Gly	Asn	Thr	Ala	Thr	Leu	Thr	Ile	Ser	Gly	Thr
400						210			215				220			
403	Gln	Ala	Met	Asp	Glu	Ala	Asp	Tyr	Tyr	Cys	Gln	Ala	Trp	Asp	Thr	Ser
404						225			230				235			240
407	Thr	Ala	Val	Phe	Gly	Thr	Gly	Thr	Lys	Leu	Thr	Val	Leu			
408						245			250							
411	<210>	SEQ ID NO:	18													

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/072,301A

DATE: 08/06/2004
TIME: 11:22:51

Input Set : A:\PTO.LM.txt
Output Set: N:\CRF4\08062004\J072301A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:32; Xaa Pos. 4

Seq#:33; Xaa Pos. 3,4

VERIFICATION SUMMARY

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Input Set : A:\PTO.LM.txt

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L:12 M:270 C: Current Application Number differs, Replaced Current Application No

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:1201 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:0

L:1222 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:0